PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference AKK-0073-PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No. PCT/JP2005/000315	International filing date (day/month/year) 13.01.2005	Priority date (day/month/year) 15.01.2004					
		15.01.2004					
International Patent Classification (IPC) or nati	onal classification and IPC						
Applicant ASAHI KASEI KABUSHIK	I KAISHA						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of	7 sheets, includ	ing this cover sheet.					
This report is also accompanied by A	NNEXES, comprising:						
a. (sent to the applicant and	to the International Bureau) a total of 28	sheets, as follows:					
sheets of the descrip	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
<u>-</u>							
. containing a sequence listing and/or tables							
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relati	ng to the following items:						
Box No. I Basis of the	report						
Box No. II Priority							
Box No. III Non-establi	shment of opinion with regard to novelty, inve	entive step and industrial applicability					
Box No. IV Lack of unit	ty of invention						
Box No. VI Certain doc	uments cited						
Box No. VII Certain defe	ects in the international application						
Box No. VIII Certain obse	ervations on the international application						
Date of submission of the demand	Date of completion of	this report					
3 - 10 0.0 0 - 10 0 - 	Suit of compression of						
Name and mailing address of the IPEA/JP	Authorized officer	Authorized officer					
Facsimile No.	Telephone No.						

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International application No.
PCT/JP2005/000315

Box	No. I	Basis of the report						
1.	_	rd to the language, this report is based on the internation under this item.	nal application in the language in	which it was filed. unless otherwise				
		This report is based on translations from the original language into the following						
	— whi	which is the language of a translation furnished for the purposes of:						
	一片	international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4)	.					
		international preliminary examination (Rule 55.2 and/						
2.	With rega	rd to the elements of the international application, this		sheets which have been furnished to the				
	receiving this repor	Office in response to an invitation under Article 14 are t):	e referred to in this report as "c	originally filed" and are not annexed to				
	\Box	international application as originally filed/furnished						
	\square	description:						
	page	es 1,4,11,13-16,18-21,23,24,27-30,34		as originally filed/furnished				
	page	es* 10,12,25,26	received by this Authority on	14.11.2005				
	page	2,3,3/1,3/2,5,6,7,7/1,8,8/1,9,9 es* /1,17,22,31,31/1,32,33,33/1	received by this Authority on	24.03.2006				
	\square	claims:	,					
		2,3,4,5,6,7,12,13,14		as originally filed/furnished				
	nos.			er with any statement) under Article 19				
	nos.			•				
	nos.		received by this Authority on	24.03.2000				
	nos.	*	received by this Authority on					
	the e	drawings:						
	shee	ets Fig. 1-16		as originally filed/furnished				
	shee	ets*	received by this Authority on					
	shee	ets*	received by this Authority on					
	a se	quence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence I	isting.				
3.	The	amendments have resulted in the cancellation of:						
		the description, pages						
	\boxtimes	the claims, nos. 8,9,10						
		the drawings. sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
4.		s report has been established as if (some of) the amenda have been considered to go beyond the disclosure as file						
		the description, pages						
		the claims, nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
*	If item 4 a	applies, some or all of those sheets may be marked "supe	rseded."					

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Box No. V Reasoned statement under A rticle 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement				
	Novelty (N)	Claims 1-7, 11-18	_ YES		
		Claims			
	Inventive step (IS)	Claims 11-14	YES		
		Claims 1-7, 15-18	_ NO		
į	Industrial applicabi	lity (IA) Claims 1-7, 11-18	YES		
:		Claims			
2.	Citations and avalenati	one (Pula 70.7)			
ź.					
	Document 1	: JP 9-33215 A (Matsushita Electric Industrial Co., Ltd.), 7 February 1997, entire text;			
		all drawings & US 6081619 A & EP 755034 Al			
	Dogument 2	: JP 6-251159 A (Nippon Telegraph and Telephone			
	Document 2				
	Corporation), 9 September 1994, entire text;				
	Dogument 3	all drawings (Family: none) : JP 6-96212 A (Nippon Telegraph and Telephone			
	Document 3	Corporation), 8 April 1994, paragraphs			
		[0002] to [0004], [0017] and [0032]; [fig.			
		2] (Family: none)			
	Document A	: JP 10-13832 A (Nippon Telegraph and Telephone			
	Document 4	Corporation), 16 January 1998, entire text;			
		all drawings (Family: none)			
	Document 5	: JP 2002-182685 A (Sony Corporation), 26 June			
	Document 3	2002, entire text; all drawings (Family:			
		none)			
	Document 6	: JP 2001-304973 A (Denso Corporation), 31			
	Document o	October 2001, paragraph [0002] & US			
		2001/35559 A1			
	Document 7	: JP 55573 A (Matsushita Electric Industrial			
	_ 0000110	Co., Ltd.), 3 March 1995, paragraph [0032]			
		(Family: none)			
	Document 8	: JP 2766820 B2 (Seiko Precision Corporation),			
	Dogamene 0	. II I. OUGHO DE (BOIRO I LOGESTON OUTPOIRGEON)			

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10 April 1998, paragraphs [0004] and [0010]

(Family: none)

Document 9: JP 2003-30240 A (NTT Data Corporation), 31

January 2003, entire text; all drawings

(Family: none)

Claims 1 to 3

The invention set forth in claims 1 to 3 does not involve an inventive step in the light of documents 1, 2, 3, 4 and 5.

It would be easy for a person skilled in the art to apply the feature set forth in document 2, wherein a plurality of movement patterns are acquired by learning, the feature set forth in document 3, wherein the attributes of a plurality of animal bodies are recognized, and the feature set forth in documents 4 and 5, wherein characteristic patterns are extracted from an object to be recognized, the likelihood is calculated based on said characteristic pattern, and recognition is carried out based on said likelihood, to the device set forth in document 1, which carries out pattern recognition by detecting a movement signal using an infrared sensor.

Claim 4

The invention set forth in claim 4 does not involve an inventive step in the light of documents 1, 2, 3, 4, and 5 and document 6 (paragraph [0002]). It would be easy for a person skilled in the art to conceive of applying the heat-type infrared light sensor set forth in document 6 to the device set forth in document 1 which carries out pattern recognition by detecting a movement signal using

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an infrared array sensor.

Claim 5

The invention set forth in claim 5 does not involve an inventive step in the light of documents 1, 2, 3, 4, and 5 and document 7 (paragraph [0032]). It would be easy for a person skilled in the art to apply the quantum infrared sensor set forth in document 7 to the device set forth in document 1, which carries out pattern recognition by detecting movement signals using an infrared array sensor.

Claim 6

The invention set forth in claim 6 does not involve an inventive step in the light of documents 1, 2, 3, 4 and 5 and document 8 (paragraph [0004]). It would be easy for a person skilled in the art to apply the pyroelectric infrared sensor set forth in document 8 to the device set forth in document 1, which carries out pattern recognition by detecting movement signals using an infrared array sensor.

Claim 7

The invention set forth in claim 7 does not involve an inventive step in the light of documents 1, 2, 3, 4, 5, 6, 7 and 8. Document 2 sets forth a recognition device using an imbedded Markov model.

Claims 11 to 14

The feature wherein characteristic quantity data contains first characteristic quantity data comprising the frame unit spectrum of detection results of a heat

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radiation detecting means, and second characteristic quantity data comprising average amplitude values, is not disclosed in any of documents 1 to 9, and would not be obvious to a person skilled in the art.

Claim 15

The invention set forth in claim 15 does not involve an inventive step in the light of documents 1, 2, 3, 4, 5, 6, 7 and 8 and document 9 (entire text; all drawings). It would be easy for a person skilled in the art to apply the device set forth in document 9, wherein coordinate values transformed to three dimensions or below are plotted and displayed on data having four or more dimensions, to the device set forth in document 1, which carries out pattern recognition by detecting movement signals using an infrared array sensor.

Claims 16 and 17

The invention set forth in claims 16 and 17 does not involve an inventive step in the light of documents 1, 2, 3, 4 and 5. It would be easy for a person skilled in the art to apply the feature set forth in document 2, wherein a plurality of movement patterns are acquired by learning, the feature set forth in document 3, wherein the attributes of a plurality of animal bodies are recognized, and the feature set forth in documents 4 and 5, wherein characteristic patterns are extracted from an object to be recognized, the likelihood is calculated based on said characteristic pattern, and recognition is carried out based on said likelihood, to the device set forth in document 1, which carries out pattern recognition by detecting a movement signal using an

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infrared sensor.

Claim 18

The invention set forth in claim 18 does not involve an inventive step in the light of documents 1, 2, 3, 4 and 5 and document 8 (paragraph [0010]). It would be easy for a person skilled in the art to apply the reporting means set forth in document 5 to the device set forth in document 1, which carries out pattern recognition by detecting movement signals using an infrared array sensor.